

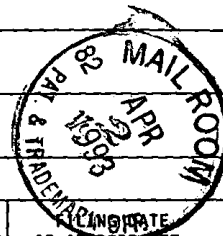
FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Rev. 2-32) PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
0652.1080000/RWESERIAL NO.
07/946,498INFORMATION DISCLOSURE
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
flc	AA1	5,087,616	02/11/92	Myers <u>et al.</u>	514	21	08/06/87
	AB1	5,116,964	05/26/92	Capon <u>et al.</u>	536	27	11/22/89
	AC1	5,166,320	11/24/92	Wu <u>et al.</u>	530	395	04/02/90
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
flc	AL1	WO 88/05077	07/14/88	PCT				
	AM1	EP 0 341 444	11/15/89	Europe				
	AN1	WO 90/01900	03/08/90	PCT				
	AO1	WO 90/01951	03/08/90	PCT				
	AP1	2,012,311	09/16/90	Canada				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

flc	AR 1	Capon <u>et al.</u> , Designing CD4 immunoadhesins for AIDS therapy, <u>Nature</u> 337:525-531 (1989)
	AS 1	Cotten <u>et al.</u> , Transferrin-polycation-mediated introduction of DNA into human leukemic cells: Stimulation by agents that affect the survival of transfected DNA or..., <u>PNAS USA</u> 87:4033-4037 (1990)
	AT 1	Derwent English abstract for Japanese patent document J63269985

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flc Genschel

9/1/93

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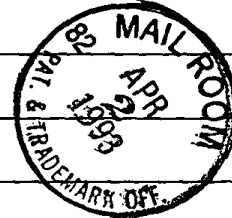
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FOREIGN PATENT DOCUMENTS

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AL2	EP 0 388 758	09/26/90	Europe					
AM2	WO 91/17761	11/28/91	PCT					
AN2	WO 92/05250	04/02/92	PCT					
AO2	WO 92/06180	04/16/92	PCT					
AP								

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

AR 2	International Search Report from International Publication No. WO 91/17773
AS 2	Stavridis <u>et al.</u> , Use of Transferrin As A Gene-Carrier To The Erythroid Cells Of The Marrow, <u>Cellular & Molecular Biology</u> 28(1):15-18 (1982)
AT 2	Wagner <u>et al.</u> , Transferrin-polycation conjugates as carriers for DNA uptake into cells, <u>Proc. Natl. Acad. Sci. USA</u> 87:3410-3414 (1990)

EXAMINER

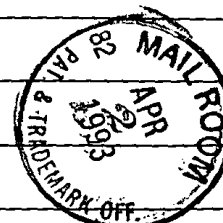
JG Gonschke 9/1/93

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	AO							
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

<div style="text-align: center;"> </div>	AR	3	Wagner <u>et al.</u> , Transferrin-polycation-DNA complexes: The effect of polycations on the structure of the complex and DNA delivery to cells, <u>Proc. Natl. Acad. Sci. USA</u> <u>88</u> :4255-4259 (1991)
	AS	3	Wagner <u>et al.</u> , DNA-Binding Transferrin Conjugates as Functional Gene-Delivery Agents: Synthesis by Linkage of Polylysine or Ethidium Homodimer to the ..., <u>Bioconjugate Chemistry</u> <u>2</u> :226-231 (1991)
	AT	3	Wienhues <u>et al.</u> , Laboratory Methods, A Novel Method for Transfection and Expression of Reconstituted DNA-Protein Complexes in Eukaryotic Cells, <u>DNA</u> <u>6</u> (1):81-89 (1987)

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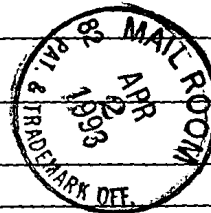
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	AL							
	AM							
	AN							
	AO							
	AP							

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Pg ↓	AR 4	Wu et al., Receptor-mediated Gene Delivery and Expression in Vivo, <u>The Journal of Biological Chemistry</u> 263(29):14621-14624 (1988)
	AS 4	Wu et al., Receptor-mediated in Vitro Gene Transformation by a Soluble DNA Carrier System, <u>Journal of Biological Chemistry</u> 262(10):4429-4432 (1987)
	AT 4	Wu et al., Delivery systems for gene therapy, <u>Biotherapy</u> 3:87-95 (1991)

EXAMINER

H. Genschenik 9/1/93

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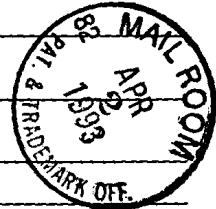
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							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

AR	5	Zamecnik <u>et al.</u> , Inhibition of replication and expression of human T-cell lymphotropic virus type III in cultured cells by exogenous synthetic oligonucleotides complementary..., <u>PNAS USA</u> <u>83</u> :4143-4146 (1986)
AS	5	Zenke <u>et al.</u> , Receptor-mediated endocytosis of transferrin-polycation conjugates: An efficient way to introduce DNA into hematopoietic cells, <u>Proc. Natl. Acad. Sci. USA</u> <u>87</u> :3655-3659 (1990)
AT	5	Zon, G., Oligonucleotide Analogues as Potential Chemotherapeutic Agents, <u>Pharmaceutical Research</u> <u>5</u> (9):539-549 (1988)

EXAMINER

J. Eisenbach 9/1/93

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